



Amal Ibrahim Mahmood Alwan Alzubedy

امل ابراهيم محمود علوان الزبيدي

Lecturer

ACADEMIC TITLES

2015-09-15 Lecturer

ADMINISTRATIVE POSITIONS

2024-09-23 - Present	Head of the Scientific Unit in electrical engineering technical college
2023-10-01 - 2024-09-22	Program Coordinator of postgraduate studies in medical instrumentation engineering technique
2017-09-04 - 2018-09-02	Head of student affairs in electrical engineering technical college
2014-09-01 - 2017-09-02	Head of the Scientific affairs in electrical engineering technical college

PUBLICATIONS (2 3)

- Artificial Intelligence-Based Non-intrusive Driver Drowsiness Detection: A Multimodal Review of Behavioral and Physiological Solutions**
International Journal of Intelligent Transportation Systems Research, 1-48, 2026 | 2026
- Design and development of a 3D neck rehabilitation system: A preliminary prototype combining manufacturing and accuracy measurement**
Series on Biomechanics, 2026 | 2026
- DEVELOPMENT AND CHARACTERIZATION OF POLY(METHYL METHACRYLATE)/HYDROXYAPATITE BIOCOMPOSITE TREATED WITH AN ANTIMICROBIAL AGENT AS A BONE ANALOGUE MATERIAL**
MATERIALI IN TEHNOLOGIJE | 2025
- Development and characterization of poly (methyl methacrylate)/hydroxyapatite bio-composites treated with antimicrobial agent as a bone analogue material**
Materials and Technology 59 (2), 315–323-315–323, 2025 | 2025 | Cited: 3
- Wireless Power Transfer for Biomedical Implants using Series–Parallel Spider-Web Coil Configuration**
Electrical Engineering Technical Journal 2 (2), 33-38, 2025 | 2025 | Cited: 1
- Optoelectronics properties enhancement in gold-titanium core-shell nanoparticles for UV absorption**
JOURNAL OF OPTICS-INDIA | 2025 | Cited: 8
- Design and Investigation of a low-Cost Elbow Rehabilitation Tool**
Annals of 3D Printed Medicine, 100167, 2024 | 2024 | Cited: 9
- Simulation and experimental of Nd-YAG laser surface treatment of biomaterials type 316?L stainless steel**
Aip Conference Proceedings | 2024 | Cited: 3
- Wireless charging for cardiac pacemakers based on class-D power amplifier and a series-parallel spider-web coil**
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS | 2023 | Cited: 17
- Powering implanted sensors that monitor human activity using spider-web coil wireless power transfer**
IET POWER ELECTRONICS | 2023 | Cited: 4

CONTACT

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EDUCATION

دكتوراه (19-06-2023)
Biomedical Engineering
Helwan

RESEARCH METRICS

h-index (Scopus)	7
h-index (GS)	7
Citations (Scopus)	133
Citations (GS)	190
Documents (Scopus)	16
Documents (GS)	22



11. **Powering Implanted Devices Wirelessly Using Spider-Web Coil**
Journal of Techniques 5 (4), 28-34, 2023 | 2023 | Cited: 1
12. **Energy harvesting-based biomedical applications: A review**
AIP Conference Proceedings | 2023 | Cited: 3
13. **Optical Data Center Implementation within Data Center Networks Context Based on Mininet**
2023 2nd International Engineering Conference on Electrical, Energy, and ..., 2023 | 2023
14. **Near-field wireless power transfer used in biomedical implants: A comprehensive review**
IET power electronics | 2022 | Cited: 68
15. **Wireless Power Transfer Based on Spider Web-Coil for Biomedical Implants**
IEEE ACCESS | 2021 | Cited: 18
16. **New Optical Fiber Biosensor Method for Glucose in Serum**
IOP Conference Series: Materials Science and Engineering 745 (1), 012049, 2020 | 2020 | Cited: 6
17. **Design and simulation of surface plasmon resonance sensors for environmental monitoring**
Journal of Physics: Conference Series 1003 (1), 012118, 2018 | 2018 | Cited: 33
18. **Refractive index sensor based on micro-structured optical fibers with using finite element method**
Iraqi Journal of Science, 1577-1586, 2018 | 2018 | Cited: 14
19. **FBG as a medical thermometer**
JOURNAL OF MADENT ALEEM COLLEGE 8 (1), 183, 2016 | 2016
20. **Quality Factor Compensation of Single Mode Optical Fiber by using Uniform Fiber Bragg Grating**
Journal of Babylon University/Engineering Sciences 22 (2), 435-443, 2014 | 2014 | Cited: 2
21. **ANALYSIS THE IMPROVEMENT PERFORMANCE OF WLAN STANDARDS FOR MULTIMEDIA APPLICATIONS WITH MULTIPLE SUBNET SCENARIOS**
INTERNATIONAL JOURNAL OF COMPUTER ENGINEERING & TECHNOLOGY (IJCET) 4 (6), 83-94, 2013 | 2013
22. **IMPROVEMENT OF IEEE 802.11G WLANS BASED ON RESPONSE TIMES APPLICATION WITH RADIO – FIBER SYSTEM**
INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATION ENGINEERING ..., 2013 | 2013
23. **An Investigation Behavior Into Dental Biomechanical Analysis**
Al-Nahrain Journal for Engineering Sciences 11 (3), 544-551, 2008 | 2008